

STN Search Summary
09/991448

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FILE 'CAPLUS' ENTERED AT 11:04:45 ON 09 OCT 2003
L1 9 S OLEP
L2 12758 S MONOOXYGENASE
L3 4 S L2 AND L1 AND POLYKETIDE
L4 61 S (L2 OR L1) AND POLYKETIDE
L5 46 S L4 AND (POLYKETIDE SYNTHASE)
L6 43 S L5 NOT L1

=> d 11 1-9

L1 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:371787 CAPLUS
TI Parallel pathways for oxidation of 14-membered polyketide macrolactones in Saccharopolyspora erythraea
AU Gaißer, Sabine; Lill, Rachel; Staunton, James; Mendez, Carmen; Salas, Jose; Leadlay, Peter F.
CS Biotica Technology Limited, Cambridge, UK
SO Molecular Microbiology (2002), 44(3), 771-781

L1 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:373086 CAPLUS
TI Cloning, characterization and heterologous expression of a polyketide synthase and P-450 oxidase involved in the biosynthesis of the antibiotic oleandomycin
AU Shah, Sanjay; Xue, Qun; Tang, Li; Carney, John R.; Betlach, Mary; McDaniel, Robert
SO Journal of Antibiotics (2000), 53(5), 502-508

L1 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:765254 CAPLUS
TI Analysis of a Streptomyces antibioticus chromosomal region involved in oleandomycin biosynthesis, which encodes two glycosyltransferases responsible for glycosylation of the macrolactone ring
AU Olano, C.; Rodriguez, A. M.; Michel, J. M.; Mendez, C.; Raynal, M. C.; Salas, J. A.
SO Molecular & General Genetics (1998), 259(3), 299-308

L1 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:448846 CAPLUS
TI A cytochrome P450-like gene possibly involved in oleandomycin biosynthesis by Streptomyces antibioticus
AU Rodriguez, Ana Maria; Olano, Carlos; Mendez, Carmen; Hutchinson, C. Richard; Salas, Jose A.
SO FEMS Microbiology Letters (1995), 127(1-2), 117-20

L6 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:697017 CAPLUS
TI An oxygen-limited cultivation method for producing polyketides by myxobacteria with polyketide congener distribution modulation
SO PCT Int. Appl., 36 pp.

L6 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:656325 CAPLUS
TI The *Streptomyces globisporus* gene cluster for biosynthesis of the enediyne
antitumor antibiotic C-1027 and the generation of novel variants
SO U.S. Pat. Appl. Publ., 119 pp., Cont.-in-part of U.S. Ser. No. 159,257.

L6 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:929603 CAPLUS
TI Heterologous expression of the naphthocyclinone hydroxylase gene from
Streptomyces arenae for production of novel hybrid polyketides
SO Antonie van Leeuwenhoek (2001), 79(3-4), 235-245

L6 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:864570 CAPLUS
TI Characterization of Four Clustered and Coregulated Genes Associated with
Fumonisin Biosynthesis in *Fusarium verticillioides*
SO Fungal Genetics and Biology (2001), 34(3), 155-165

L6 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:764047 CAPLUS
TI Genome sequence of an industrial microorganism *Streptomyces avermitilis*:
deducing the ability of producing secondary metabolites
SO Proceedings of the National Academy of Sciences of the United States of
America (2001), 98(21), 12215-12220

L6 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:761732 CAPLUS
DN 137:104419
TI Organization of biosynthetic gene cluster for avermectin in *Streptomyces avermitilis*: analysis of enzymatic domains in four polyketide
synthases
SO Journal of Industrial Microbiology & Biotechnology (2001), 27(3), 170-176

L6 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:634532 CAPLUS
TI Nucleotide sequence and predicted functions of the entire *Sinorhizobium meliloti* pSymA megaplasmid
SO Proceedings of the National Academy of Sciences of the United States of
America (2001), 98(17), 9883-9888

L6 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:505089 CAPLUS
TI Engineered biosynthesis of novel polyenes: a pimaricin derivative produced
by targeted gene disruption in *Streptomyces natalensis*
SO Chemistry & Biology (2001), 8(7), 635-644

L6 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:158443 CAPLUS
TI Studies on the biosynthesis of epothilones: the PKS and epothilone C/D
monooxygenase
SO Journal of Antibiotics (2001), 54(2), 144-148

L6 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:51336 CAPLUS
TI Cloning, sequencing and analysis of the enterocin biosynthesis gene cluster from the marine isolate "Streptomyces maritimus": evidence for the derailment of an aromatic polyketide synthase
SO Chemistry & Biology (2000), 7(12), 943-955

L6 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:900821 CAPLUS
TI Genes encoding enzymes in the biosynthesis of pimaricin in Streptomyces natalensis and the application for new biosynthetic molecules
SO PCT Int. Appl., 115 pp.

L6 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:536440 CAPLUS
TI Biosynthesis of the polyene antifungal antibiotic nystatin in Streptomyces noursei ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway. [Erratum to document cited in CA133:318082]
SO Chemistry & Biology (2000), 7(7), R176

L6 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:475677 CAPLUS
DN 133:101923
TI The Streptomyces globisporus gene cluster encoding enzymes of biosynthesis of the enediyne antitumor antibiotic C-1027
SO PCT Int. Appl., 160 pp.
CODEN: PIXXD2

L6 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:446716 CAPLUS
TI Genetic localization and molecular characterization of the nonS gene required for macrotetrolide biosynthesis in Streptomyces griseus DSM40695
SO Antimicrobial Agents and Chemotherapy (2000), 44(7), 1809-1817

L6 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:439427 CAPLUS
TI Biosynthesis of the polyene antifungal antibiotic nystatin in Streptomyces noursei ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway
SO Chemistry & Biology (2000), 7(6), 395-403

L6 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:409167 CAPLUS
TI The FK520 gene cluster of Streptomyces hygroscopicus var. ascomyceticus (ATCC 14891) contains genes for biosynthesis of unusual polyketide extender units
SO Gene (2000), 251(1), 81-90

L6 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:238448 CAPLUS
TI A DNA sequence encoding the genes of epothilone biosynthesis of Sorangium cellulosum
SO Ger. Offen., 36 pp.

L6 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:9540 CAPLUS
TI New lessons for combinatorial biosynthesis from myxobacteria. The
myxothiazol biosynthetic gene cluster of *Stigmatella aurantiaca* DW4/3-1
SO *Journal of Biological Chemistry* (1999), 274(52), 37391-37399

L6 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:764178 CAPLUS
TI Sequence and recombinant narbonolide polyketide synthase
applications from *Streptomyces venezuelae* for creation of useful
antibiotics
SO PCT Int. Appl., 98 pp.
CODEN: PIXXD2

L6 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:548510 CAPLUS
TI Organization of the biosynthetic gene cluster for the polyketide
anthelmintic macrolide avermectin in *Streptomyces avermitilis*
SO *Proceedings of the National Academy of Sciences of the United States of*
America (1999), 96(17), 9509-9514

L6 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:801707 CAPLUS
TI The granaticin biosynthetic gene cluster of *Streptomyces violaceoruber*
Tu22: sequence analysis and expression in a heterologous host
SO *Chemistry & Biology* (1998), 5(11), 647-659

L6 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:624768 CAPLUS
TI Characterization of the macrolide P-450 hydroxylase from *Streptomyces*
venezuelae which converts narbomycin to picromycin
SO *Biochemistry* (1998), 37(42), 14937-14942

L6 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1997:510207 CAPLUS
TI Effect of the Daunorubicin *dpsH* Gene on the Choice of Starter Unit and
Cyclization Pattern Reveals That Type II Polyketide
Synthases Can Be Unfaithful yet Intriguing
SO *Journal of the American Chemical Society* (1997), 119(31), 7392-7393

L6 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:142742 CAPLUS
TI Organization of the biosynthetic gene cluster for rapamycin in
Streptomyces hygroscopicus: analysis of genes flanking the
polyketide synthase
SO *Gene* (1996), 169(1), 1-7

L6 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:123412 CAPLUS
TI Twenty-five coregulated transcripts define a sterigmatocystin gene cluster
in *Aspergillus nidulans*
SO *Proceedings of the National Academy of Sciences of the United States of*
America (1996), 93(4), 1418-22

L6 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:745902 CAPLUS
TI Sterigmatocystin biosynthesis in *Aspergillus nidulans* requires a novel
type I polyketide synthase
SO *Journal of Bacteriology* (1995), 177(16), 4792-800

L6 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:597380 CAPLUS
TI Comparative mapping of aflatoxin pathway gene clusters in *Aspergillus parasiticus* and *Aspergillus flavus*
SO *Applied and Environmental Microbiology* (1995), 61(6), 2365-71

L6 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1994:211250 CAPLUS
TI Enzymic synthesis of a bacterial polyketide from acetyl and malonyl coenzyme A
SO *Science* (Washington, DC, United States) (1993), 262(5139), 1535-40

L6 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1994:128414 CAPLUS
TI The tcmVI region of the tetracenomycin C biosynthetic gene cluster of *Streptomyces glaucescens* encodes the tetracenomycin F1 monooxygenase, tetracenomycin F2 cyclase, and, most likely, a second cyclase
SO *Journal of Bacteriology* (1993), 175(23), 7571-80